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Claims

- 1. Method for the analysis of the degradation resistance of native starch, wherein a predetermined amount of native starch is suspended in a buffer, a starch degrading substance added, a reagent added, said reagent forming a coloured complex in the presence of reducing sugars, the components forming a test solution, **characterized** in that the test solution is incubated at a temperature below the gelatinisation temperature of the starch, and the colour change evaluated, without preceding heat-treatment or chemical treatment of the starch.
- 2. Method according to claim 1, characterized in that
- the buffer used has about neutral pH and contains about 0.01 M chloride ions,
- α -amylase is added to the starch suspension,
- the test solution is incubated at a temperature in the interval of about 35°C about 70°C,
- a sample is taken from the test solution and filtered before mixing with the reagent, and the colour change of the test solution is determined as a function of time.
- 3. Method according to claim 2, characterized in that
- the buffer used has a pH of about pH 6.6,
- the test solution is incubated at a temperature in the interval of about 37 °C about 42°C, and
- the absorbency is measured by scanning the wavelength interval of 450 to 500 nm and the absorbency determined at the maximum value occurring within this interval.
- 4. Method according to claim 1, characterized in that the reagent is 3,5 dinitro salicylate.
 - 5. Method according to claim 2, **characterized** in that the reagent is 3,5 dinitro salicylate.
 - 6. Method according to claim 3, characterized in that the reagent is 3,5 dinitro salicylate.
 - 7. Method according to claim 4, characterized in that the reagent solution is filtered before use.
 - 8. Method according to claim 1, **characterized** in that the enzymatic degradation properties of untreated granules of a known fraction are used for comparative purposes.
 - 9. Method according to claim 1, **characterized** in that different fractions of starch are compared with respect to their ability to resist enzymatic degradation.

- 10. Method according to claim 1, **characterized** in that different starch formulations are compared with respect to their ability to resist enzymatic degradation.
- 11. Method according to claim 8, **characterized** in that the values obtained are used to predict the enzymatic degradation behavior of starch *in vivo*.
- 5 12. Method according to claim 9, **characterized** in that different fractions of starch are compared with respect to their ability to resist enzymatic degradation.
 - 13. Method according to claim 10, **characterized** in that different fractions of starch are compared with respect to their ability to resist enzymatic degradation.
 - 14. Method according to claim 8, **characterized** in that the values obtained are used to predict the enzymatic degradation profile of starch *in vivo*.
 - 15. Method according to claim 9, **characterized** in that the values obtained are used to predict the enzymatic degradation profile of starch *in vivo*.
 - 16. Method according to claim 10, **characterized** in that the values obtained are used to predict the enzymatic degradation profile of starch *in vivo*.